EA 2.1A Displaying Data Activity

Activity Purpose: The purpose of this activity is to provide opportunities to display different pieces of data depending on the questions that you start with. Data clearly displayed helps to insure that people clearly understand the message you want to get across, avoids miscommunication, and provides a visual representation of your information. Data that can be displayed helps to make sure decisions are made that are defensible.

Activity Resources:

- Attached data sets and questions to answer
- Excel graphing template (named: EA 2.5 Excel Graph Template (an Excel document))
- Atomic Learning website
 - o Go to http://www.iowaaeaonline.org and select atomic learning link. If you do not know your log in and password information you can obtain that from your local school media specialist. If they do not have this information contact the media division at your local Area Education Agency. Atomic learning is a free web based tutorial program. For this activity you would use the excel tutorials.
- Activity reflection sheet (named: EA 2.5 Graphing Activity Reflection Sheet (a word document))

Task: Using Excel and the attached data sets (tables) create a graph for each that would display the answer to the questions. Make sure the graph has a title and the axes are labeled. Return the graphs for each of the questions to your instructor with the reflection sheet.

Provide your results to your instructor via email or on paper.

Graphing Sample Data

The questions that were created for a QIC-decide process are listed below. For each one the data table is given. Show how you would display that data to answer the question given.

Question 1: What is trend in office referrals during lunchtime?

Question 2: What months have the most office referrals of 6th Grade students for disruptive behavior at lunch?

Office Referrals for Disruptive Behavior at Lunch								
	September	October	November	December	January	February	March	April
6 th grade	25	18	12	15	10	6	3	5
7 th grade	5	6	4	7	2	3	2	6
8 th grade	3	5	3	6	2	6	7	12

Question 3: How many students are passing classes during the 4th quarter?

Question 4: What quarter shows the most students passing classes? What quarter has the least number of students passing classes?

Total Number of Students is 50

Number of Students Passing 10 th grade Classes						
	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter		
Language Arts	42	45	42	40		
Math	50	48	40	41		
Social Studies	48	46	47	48		
Science	40	42	41	39		

Question 5: What is the ethnic makeup of the students in our district?

Student Population					
White	78 %				
African	5%				
American					
Hispanic	12%				
Asian	3%				
Native American	2%				

Question 6: How do the scores of students on the ITBS reading total compare to the scores for students on our district developed reading test?

	r	i		
Student	ITBS Reading	District		
Name	Total	developed		
	percentile rank	reading test raw		
	score	score		
Α	40	8		
В	50	12		
С	55	14		
D	90	18		
E	25	7		
F	65	12		
G	70	15		
Н	80	15		
1	10	5		
J	85	18		
K	75	16		
L	95	20		

Question 7: Is our 8th grade class (year 00-01) doing better than they have done in previous years on the Generic Science test?

Question 8: Which grade has the most students scoring in the less than proficient range on the Generic Science Test during the 99-00 year?

Question 9: Which year did we have the most students in the proficient or higher range on the 7th grade Generic Science Test?

Percent of students scoring at each proficiency level on the Generic Science Test									
Grade	6 th grade			7 th grade			8 th grade		
Year	98-99	99-00	00-01	98-99	99-00	00-01	98-99	99-00	00-01
Less than Proficient	43%	45%	44%	43%	42%	44%	41%	44%	41%
Proficient	51%	50%	49%	48%	47%	49%	50%	48%	48%
Advanced	6%	5%	7%	9%	11%	7%	9%	8%	11%